

S P A R K S

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N O R T H S H O R E R A D I O C L U B Box 171 OSHAWA Ontario

EXECUTIVE & OFFICERS 1976

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March 1976

NEXT MEETING March 9 Tuesday 8 p.m. Durham College Oshawa

Last month we had the pleasure of hearing Dave, VE3FGK, who spoke on 2 meter FM DF-ing. This month, we are very fortunate in having a representative from the Metro Toronto Police who will speak on the new Communications system which has been recently installed. It is a very sophisticated system and is capable of handling a wide range of communications such as would be necessary to cover the Metro area adequately. Sergeant John Gay, VE3EVL will be our speaker unless he is unable to get away due to other commitments. Members of the Toronto FM society were given a tour of the facilities on Jarvis street recently and were able to see the system in actual operation. A number of repeaters and encoding are used which should be of interest to the FM buffs. Let's have a good turnout and make it worthwhile for our guest.

CANADIAN WINTER RALLY 1976

The Oshawa and District group took part once again in the Rally and provided excellent communications at two selective locations, each one being used both up and down runs plus a couple of service stops. Paul, 34QV used his JEEP to good advantage for sweeping some of the selectives, 3QG, FIV, ATI, GUS, took care of one of the Kinmount selectives, 3FPP, HMG with Paul, 3PQ from Toronto handled the Essonville run and 3GTS looked after a Wilberforce service stop with 3GUD doing double service on an Irondale service centre and some work on a selective. There were about 56 cars entered and about 23 finished officially. Jean Paul Perusse with co-driver John Bellefleur in a Fiat came in first and a Vancouver pair came in second also driving a Fiat. Perusse is a perennial winner. Ken, 3FPP, had a hairy ride back to Oshawa due to freezing rain-his companion, Ray, has done some ice racing and gave Ken a thrill by driving the Exxonville course after the rally. Ray brought his young son who enjoyed the rally and the outing. The snow around the Essonville tower, which provided valuable linking with the mobiles, was surrounded with about 2 feet of snow, so Doug, 3CWO and Bob, 3DLJ from Newmarket, had a time getting into their shack. FIV and ATI were spotted at a couple of curves and had a good view of the cars making square turns, or trying to, with the occasional nosing into the snowbank. If you like winter, the rally is the place to experience it.

BITS N PIECES

We are sorry to hear that Laura Hazelden who has attended some of the Club classes has had to abandon the goal due to poor health. She went into the hospital to be treated for a back problem and is due for open heart surgery in Toronto in the next week or two. We wish her a speedy recovery and are sorry she has been forced to forego the classes at this time.

Anyone who has faced the problem of matching the power connector coming out the back of some of these commercial rigs for two meters can find solace at the Canadian Tire; the 3 way trailer type come in pairs and are available for 99¢. Use a hack saw to change to 2 way, make sure you cut off the correct one. The remaining two will only go together one way, taking care of the polarity.

If anyone would like an extra crest, or any new members would like one, see John, 3FGL, at the meeting-he has a few spares.

Ken, 3FPP, has agreed to be chairman of a special committee regarding 2 meter transmitter hunts. He hopes to have dimensions and any other data required to make a D.F. loop. As we don't have the info for this bulletin, he may have it at the next meeting. If there are enough people interested, we will try to arrange a hunt.

Bob, 3HNH, is our co-ordinator, chief negotiator etc. for speakers, meetings, etc. & I believe is trying to arrange a presentation by Bob Naylor, 3AEE (a friend of Jac, 3VH). He recently visited Russia and took some interesting pictures.

The first 10-meter repeater, WR0AFX, 2 meters in-10 meters out, is operational. There is some discussion going on now in the States regarding the 10-meter frequencies-29.6 Mhz. simplex, and 100 Khz. spaced pairs at 15 Khz. starting at 29.515 and 29.615 Mhz. out. (that should read every 15 Khz. Naturally, this has sparked considerable interest among the Sunday A.M. 10-meter net guys. Enough, so that we have formed a committee to investigate the possibility of a local one.

73, Vic VE3ANX

BULLETINS

If you receive this bulletin and are not a member of the club, it may be that you have attended a recent meeting. We welcome you to any of the upcoming meetings which are held on the SECOND TUESDAY of each month except JULY and AUGUST at DURHAM COLLEGE. If you should have received last month's bulletin and did no, our apologies. We have computer printed labels ? and additional mailings are typed or written out-sometimes the list goes astray. The easiest way to get your bulletin if you are a member is to be on the paid-up list. Dues were due on January 1st and we don't want to lose you.

P.S. VE3OSH has 2 new MOTRAC receivers now in service-solid state all the way with about 7 db. of hysteresis. This holds a weak signal and avoids that infernal pumping. Companion transmitters are coming with tube finals.

"MINUTES OF THE NORTH SHORE RADIO CLUB MEETING FOR
TUESDAY, 10TH FEBRUARY 1976"

The meeting was called to order at 8:07 pm in room C249 of Durham College, with 40 persons in attendance, 7 of which were visitors.

Following the reading and adoption of January's Minutes, Hank (FHV) officially withdrew his motion for a club-sponsored dance, citing the problem of club finances in making his decision.

The business of Club property next arose, as it was announced by Vic (ANX) that the Club President recently obtained a small briefcase (courtesy of Bob, HNH); it was learned too that John (FGL) had acquired a metal box to assist him with his duties as Registrar (he was also praised for his fine work to date on behalf of the Club). As well, there was a general call to all members in possession of Club equipment to come forth in the future so that a record might be made by the Secretary of this property.

Vic then quoted several tid-bits from the weekly "HR Report", prior to announcing the return to club activities by life-member Eddy (AZV) who rose to express his thanks to those present.

Mike (FIV) stated that he was in need of \$50.00 for the purchase of 5000 bulletin address labels; discussion on this was reserved for the next Executive meeting.

Following Ralph's (CRK) distribution of copies of a flyer/circuit combination, visiting-speaker Dave Kerr (FGK) addressed the membership on his Club's experiences with a recent 2-meter "transmitter hunt". He was ably assisted by Bruce (GBC) and a small assortment of gear which was used in the "hunt".

The meeting broke for a $\frac{1}{2}$ -hour coffee-break at 9:20, but Dave returned fielding questions on phone-patches and Bell Telephone/Amateur radio relations in general. The meeting was finally adjourned at the completion of these discussions (10:25 pm).

WELL, I BELONG TO...

From the record of our February meeting (with 33 full NSRC members attending) the following is learned about membership to other radio organizations: ARRL, 24 members (73%); RSO, 17 members; CARF, 8 members (24%). Members should also be aware of the fact that the North Shore Radio Club is affiliated with the American Radio Relay League, and has been for some time.

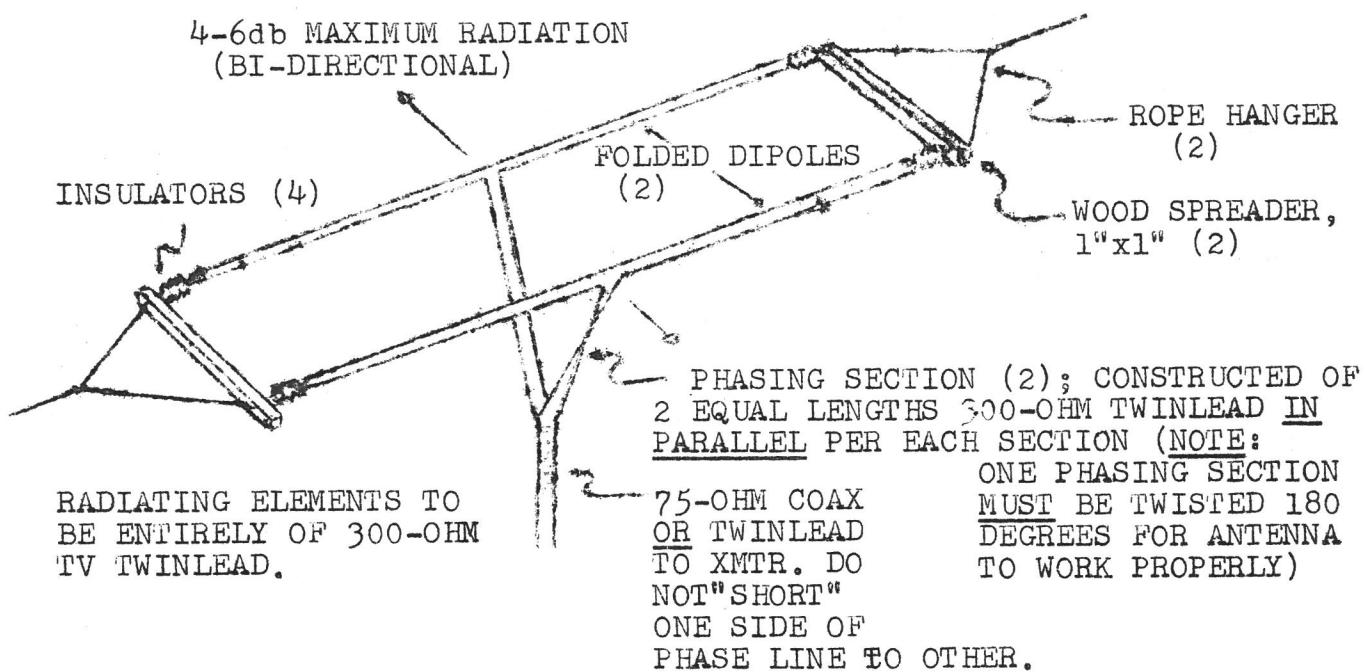
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-SIMPLE, EFFICIENT, "W8JK" BEAMS-

It's a fact that many local amateurs are struggling for QSOs on 20, 15, and 10-meters with "makeshift" antennas (C.B. beams, random wires, etc.). The truly sad part of all this is that some of these Hams continue to "make do" with inefficient radiators because somehow, somewhere, during the course of their Amateur careers, they have unfortunately adopted the infamous stratagem of the "appliance operator" as pertaining to antennas---specifically, "The-only-way-to-improve-such-a-situation-is-to-dole-out-\$250.00-plus-for-a-commercial-type-50-foot-tower-and-tri-bander" (which, incidentally, has dubious performance characteristics due to "loading" coils and compromised element spacing).

This is indeed an incorrect (and expensive!) notion because, for a couple of bucks and one Saturday afternoon, anyone can build a simple, no-compromise, mono-band "W8JK" beam (with low S.W.R.) offering up to 6-db gain in each of two directions---and, as an added "plus", this beam would take no more space length-wise than a simple $\frac{1}{2}$ -wave dipole.

The sketch and dimensions of the "Simplified W8JK" beam are below; it is a modification of a design presented by W6WAW in the February 1963 issue of "73" magazine, in that it offers the advantage of 100% 300-ohm twin-lead construction (except, of course, for the feed-line to the transmitter):



.../Continued...

(5)

.../"W8JK" Continued...

DIMENSIONS--

FREQUENCY:	DIPOLE LENGTH:	PHASING SECTION LENGTH:	DISTANCE BETWEEN DIPOLES:
7.0	66' 9"	25' 8"	22' 0"
7.2	65' 0"	25' 0"	22' 0"
14.0	33' 4"	12' 10"	11' 0"
14.2	32' 6"	12' 9"	11' 0"
21.0	22' 3"	8' 6"	8' 3"
21.3	21' 11"	8' 5"	8' 3"
28.5	16' 5"	6' 4"	5' 6"

Such an antenna has been used for 10-meters at this QTH for several months now, with gratifying results: during a recent 10-meter net session in which a "WØ" from Missouri checked-in, VE3CUI (with 180-watts P.E.P. input) was reported to have the strongest signal among the three other "locals" calling him. As well, in checks with VE3BRT (Bowmanville) an increase of 1 to 1½ "S" units was noted by Bill with the "W8JK" doing the radiating at this end (as opposed to a simple ½-wave dipole formerly occupying the location of the new antenna).

The "W8JK" can be mounted in any fashion as dictated by what is available on your property, i.e, it can be "sloped" to the ground from a single support, it can be strung horizontally between two supports, or, it can be suspended vertically from the top of an existing structure. As well, it's reported, antenna height is not too critical with the "W8JK" due to the fact that both elements do the radiating (in other words, it lends itself nicely to low-angle radiation).

It is my hope that details of this "oldie-but-goldie" have been presented clearly, in order that others might be able to build and enjoy the "W8JK" as much as I have. By all means feel free to get in touch and let me know of your results (or problems!) with this fine beam.

-EDDY (VE3CUI)

-HOW TO LOSE YOUR LICENCE & CERTIFICATE: ONE EASY STEP-

Picture the scene: you (VE3ABC) are in the shack of a friend (VE3XYZ) who, let's say, has just checked-in to the local net. Your friend invites you to "give a shout" to the net-controller (VE3ZZZ), so you oblige with a friendly, "VE3ZZZ, this is VE3ABC. Over."

What have you done? Quite simply, you've just risked

losing both your Amateur Licence and Radio Certificate by breaking what appears to be a largely unknown (but still serious) D.O.C. regulation. The rules state that when visiting a licensed friend, you must use the call-sign of your host---no other call-sign (i.e. simply yours, or yours with "portable" after it) is to be used.

What would be permissible in the example above, is ~~x~~something to the effect of, "VE3ZZZ, this is VE3XYZ, with VE3ABC at the microphone. Over." Better safe than sorry afterwards.

-(Tnx "Canadian Radio Amateur Licensing Handbook")

-"TOP BAND" ACTIVITY-

Tired of the QRM-infested higher-frequencies in the evening hours? You can't "QSY 2-meters" because you don't have the gear? Then set the band-switch to a place in the spectrum with flavour and pioneer spirit: 160-meters. Frequencies, for this area, are as follows:

1800-kHz to 1825-kHz:	500-watts input day, 100-watts night;
1825-kHz " 1850-kHz:	250 " " " " 50 " " ;
1850-kHz " 1875-kHz:	125 " " " " 25 " " ;
1875-kHz " 1975-kHz:	NO OPERATION PERMITTED AT THIS TIME ;
1975-kHz " 2000-kHz:	125-watts input day, 25-watts night.

Many of the newer rigs on the market (Yaesu, etc.) have 160-meter capabilities; to conform to the lower night-time power levels, simply crank-down the microphone gain. If room isn't available for a full-size dipole, you might try a simple $\frac{1}{4}$ -wave "random" wire (130-feet) connected to the centre of the rig's r.f. output jack (be sure you have a good earth ground---and beware of an "r.f. hot" shack, hi).

One of the nice things about 160 is the abundance of slow-fisted old-timers (the band abounds with long, friendly rag-chews). Most activity lies in the 1800-1825 kHz segment, away from LORAN splatter; incidentally, LORAN may clear out of the band entirely by the end of the decade, leaving it completely for ~~x~~Amateur use. Another point of interest to 160 watchers is the fact that the 1979 world frequency allocation conference will see ~~E~~Amateurs trying to push the lower limit of the band to 1715-kHz (believe this was the band-edge prior to World War II...?).

"Top band" may not appeal to those who enjoy "easy DX" (foreign stations call North America in their exclusive "DX Window" from 1825-kHz to 1830-kHz); however, on an average night, with "average" equipment, one can expect the same coverage on 160 as can be attained on 40-meters during a "good" day of propagation on the latter band... ..and signals on 160 are "slower" in "dropping out", too! Now, if only there was some way to erect a "W8JK",...(hi).